JUN 2 2 2004



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TO:

Examiner J. Tung - Art Unit 1637

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FROM:

Mark J. Hyman (Reg. No. 46,789)

RE:

Application No. 09/830,230

Any, Docket No. PB481US

Application of: Choi et al.

Filed: September 27, 2001

The following documents were filed by Human Genome Sciences, Inc. via facsimile on June 22, 2004:

- 1. Fax Cover Sheet
- 2. Fee Transmittal Sheet
- 3. Amendment Under 37 C.F.R. § 1.111
- 4. Certificate of Transmission Under 37 C.F.R. § 1.8

If you experience any difficulty receiving this transmission, please contact Mark J. Hyman at (240) 314-1224.

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PTO/SB/17 (10-03)

Approved for use through 7/31/2008. OMB 0651-0032

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Under the Paperwork Reduction Act of 1895, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Complete if Known FEE TRANSMITTAL 09/830,230-Conf #3043 Application Number April 24, 2001 Filing Date for FY 2004 Gil H. Choi First Named Inventor Effective 10/01/2003 Poloid 1985 are publicated annual revision Examiner Name J. Tung Applicant claims small entity status. See 37 CFR 1.27 1637 Art Uns TOTAL AMOUNT OF PAYMENT 0.00 Attorney Docket No. PB4B1US FEE CALCULATION (continued) METHOD OF PAYMENT (check that apply 3. ADDITIONAL FEES X Deposit Account Large Entity Small Enury 08-3425 F00 (\$) Fee (\$) Fee Description Com Code Fee Paid MARIDE 1051 65 Surcharge - Nate Ming fee or outh 130 2051 Human Genome Sciences, Inc. Surenarge - late provisional filing fee or cover Name 1052 2052 25 50 tor is authorized to (check all that apply) X Creat any overpayments x len 1053 130 1053 130 Non-English specification 1812 2.520 For filing a request for ex parts reexamination ж Charge any additional rec(s) or any underpayment of tee(s) Requesting publication of SIR prior to Examiner action 1804 920 1804 920* Charge text(s) violation below, except for the filing fee Requesting pupilication of SIR agen to the above-identified deposit account 1606 1805 1.840 1.840 FEE CALCULATION 1251 71D 2251 55 Execusion for reply within fast month 1. BASIC FILING FEE 1252 420 2252 210 Extension for reply within second month 1253 950 2253 475 Extension for reply within third month Large Engly Small Engly Fee Description Fee Paid Fee (\$) Fos 2254 740 Extension for reply waten fourth mortin (\$) 2255 1,005 Expension for reply within firm month 1001 770 2001 385 Unity flung tee 1255 2010 1002 340 2002 170 Design hing fee 1401 330 2401 165 NOGGS of Appeal 530 2003 265 Plans filing fee 1402 330 2402 165 Fixing a brief in support of an appeal 1003 385 Reissue filing too 1403 290 2403 145 Réquest for oral heaning 770 2004 1004 1005 160 2005 80 Provisional films fee 1451 1,510 1451 1,510 Petition to institute a public use proceeding 1452 110 2452 55 Perition to revive - unavolgapio SUBTOTAL (1) (\$) 0.00 2453 1453 1,330 685 Petrion to revive - unintentional 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE 2501 666 Utility (SSUE fee (or reissue) 1501 1502 460 2502 240 Design issue fee Fas Paid Total Claims 9 31 = 0.00 1503 640 2503 320 Piam sauce fee naependeni 1450 130 1450 130 Peutions to the Commissioner 2 0.00 1807 50 1807 Processing tee under 37 CFR 1 17(q) Multiple Dependent 1806 180 1806 180 Suprivation of information Disclosure Strnt arge Enuty Small Entity Recording each patent assignment per property (umes number of properties) Foo (\$) Fee Description 8021 4D 8021 4D Filing a submission enertinal rejection (37 CFR 1 129(8)) 1202 18 2202 Станть и слось от 20 1809 770 2809 385 1201 2201 43 Independent craims in excess of 3 86 For each aggreenal invention examined (37CFR 1.129(p)) 1810 770 2810 385 1203 290 2203 145 Multiple dependent claim, if not paid 43 Reissue independent cisinis over onginal parent 86 2204 770 2801 385 Request for Continued Examination (RCE) Request for expedited examination of a design application 900 1205 18 2205 ** Residue clasms in excess of 20 and over original patent Other top (specify) SUBTOTAL (3) (5) 000 SUBTOTAL (2) (\$) 0 00 "Reduced by Basic Filing Fee Paid "or number previously paid, if greater. For Reissues, 886 above SUBMITTED BY (Complète (# apphcable)) Registration No. (Attorney/Agent) Mark J. Hyman 46,789 Тыерполе (240) 314-1224 June 22, 2004

Jun-22-04 05:11pm

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JUN 2 2 2004

In re Patent Application of:

Choi et al.

Application No.: 09/830,230

Filed: April 24, 2001

For: Lyme Disease Vaccines

Docket No.: PB481US

Confirmation No.: 3043

Art Unit: 1637

Examiner: J. Tung

OFFICIAL

AMENDMENT UNDER 37 C.F.R. § 1.111

MS Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In response to the Office Action mailed March 26, 2004, please consider the following amendments and remarks. Submitted concurrently herewith are: (a) a Fee Transmittal Sheet, with appropriate fee; and (b) a Certificate of Transmission Under 37 C.F.R. § 1.8.

Please amend the application as follows: